e 6 of 17

	No.	70.2			/ .		٠	•		*
	The same of the sa	•		A DEPARTMENT	280	350	CAIAIGGTTA 4 2 V			620 630 630 AAATCCCACA GCACGGGGG
* 1.4		.09	Ì	_		340 СТТАВВЕТСТВ	412	GCACCATTTA	S50 OATGAATCAC	620 AAATCCCACA
		50 CGATGACACC	•	_	260 TGATGCTATA	330 AATCTATTGA	400 GCAATATTGT	470 GTTTGTATAC	540 GGTAAACCAC	610 AGAGTACGCC
	and Ncol	40 CGTATGATGG	110 GACATGATTT	180 TTGTAAAAAT	250 ATCAGAATGG	320 TTTTGAAACT	390 AAATCACATC	460 CAAGTGATGT	530 ATTTTTTAA	600 TGGCAGTGGC
	Between Sall	30 GCTCGCCTGC	100 TTTAACATGT	170 AGTAACGCAT	240 TGATTATTGT	310 ATTTGATATA	380 CTTTTTGTAA	450 CAGATTCATT	520 AGCATGTATC	590 GGCACATITA
	Sequence	20 GGGCAGGTGT	90 TGTGATATGA	150 CATAATTTAG TAACGCATTT	230 TGATTGTATC	300 TCACTCTATG	370 TAATGGTAGG	440 TCCCAATCAC	510 TGCCTATGTC	
FIG.6A	Nuclectide	10 CCATGGATAT	80 CGATTTGACA	150 CATAATTTAG	220 TAGAATATTA	290 TTTGGGTTAA	360 TAATTTAGCA	430 TGAATGACGA	500 TTCAATCAAA	570 580 TCATCTTAA CAAAGCCACA

U.S. Pat	U.S. Patent		o. 15, 199	8	Sheet 7	of 17		5,808,024		
700 CCGCGCTCGC		840 ATTGCTATTG	910 TCAATGGAAG	980 TGTAAAGGCT	1050 AATCCTAAAC	1120 GAAGCTCAAA	1.190 AGCCARGICA	1260 TCCTTGGCAG		
690	760	830	900	970	1040	1110	1180	1250		
GCCCGTATTG	AAGATACCAA	TGATCGAGCC	AATAAAACTG	TCGGTGGTGA	TCAGCATGGT	AAAGAAATAC	CTGCAGTGGG	AAGTGCCTAT		
680	750	820	890	960	1030	1100	1170	1240		
TCTGAGCTTT	GCTCAAAAA	AGGCGGACGG	CGGTAGTAGT	TCCATCGCCA	ATTTGCTTGA	TGCAGTATTA	CACGCCAGTA	CAACAGCTAA AAGTGCCTAT		
670	740	810	880	950	1020	1090	1160	1230		
GTGTATGCAC	CAGTGCTTAT	GGCACTGCCA	CCATCGCCAT	GGGTCAAGAG	GATGACTTAC	TTAACGGCCA	CGCAAGCGGA	GGTACACGG		
660	730	800	870	940	1010	1080	1150	1220	٠	
CAAGTTGGCA	CGCTCAGTGG	AAGACGCTCA	GGCGGTCAAG	CCGATGCTAC	CATCGGTAGT	AACGATCTTA	GACGCACAAC	CAACGCCTTT		
FIG.6B 640 650 Gegracere rectacages caastregea	720 ATCGGTGCAA	790 AAAACCAGCC	860 TAACGCACAG	930 AAGATAGGTA	1000 CCTCGATTGC	1070 TACTCTGATT	1140 GTAAAATATA		•	
FIG.6B 6408 gegeragerg	710 TGTCCTCGTG	780 ATTGGTGAAC	850 GTGAAAATGC	920 CAGTTTGGAT	990 AGTGGTGATG	1060 ATCCGAAAGG	1130 GGATAATGAT	1200 TATGCAÇAGG GTCATTTTTC		

. U. S	S. Pate	ent	Sep.	. 15, 1998	3	Sheet 8 (of 17	5,808,024			
	1330 CTAGCTCGTT	1400 TCAAGGTTCT	1470 GACCCCAAGT	1540 GTAAAATCAT	1610 GGTGAAGTGG	1680 TTGGATAATA	1750 TAAAAGAGGC	1820 TACAACTACA	1890 AGTGATAGTT		
9 %	1320 GATGCAACAT	1390 TTGCCCTAGG	1460 CCAGGCACTA	1530 TCTATCAAAC	1600 TAGAAGCGGT	1670 AAAAATAGGT	1740 ATCGGTGTGG	1810 CTGAGGTGAA	1880 TGAATTATTG		
•	1310 TATTGGTTCT	1380 CAGGGCAGTA	1450 CACCAAATAC	1520 TGGTAGTAAC	1590 GTGGCACAGC	1660 GTACTGACGT	1730 CGATAATAAT	1800 AACAATCTTA	1870 GTACTACAGC		
	1300 CTACAATCGC	1370 TGCTCAGCTA	1440 CCGGCCTATA	1510 CACTTTCCAT	1580 TGCGGTCAAT	1650 GATGATAACA	1720 ACGCATTAAC	1790 TAAAACTTTA	1860 AGTAGTAGTA		
N.	1290 GAGGGCCAAT	1360 CAGGTACTCG	1430 TAATTCTAGA	1500 AAGGCGGGTC	1570 ATAAAACCGA	1640 TTTTCAGGGT	171.0 GCAGAGACCA	1780 TTAAACTTGC	1850 TAAGGTAGGT		
	1280 CGCCACAGCC	1350 GCCCTTGGTG	1420 AGAGTGATAA	1490 CAATAATACG	1560 GCAGGTGTTA	1630 GTAGAATTAC	1700 TAAAGGTGGT	1770 GGTCTGAAAG	1840 CAACCACAGT		
FIG.6C	1270 TEGENCTIGO	1340 GGGAGCGATA	1410 GTTGTCACTC	1480 TTCAAGCCAC	1550 CAATGTCGGT	1620 GCTAAGGAGC	1690 CTTTAACTAT	1760 TGATAATAGT	1830 TTAAATGCCA		

U.S. Pato	Sep.	15, 1998	S	heet 9 of	5,808,024			
1960	2030	2100	2170	2240	2310	2380	2450	2520
ATGGGGTGAA	AATTGGCTTT	GTGGGTAGTG	AAGGTAGCAG	CGCTGGCATC	TACAACATTG	GTGGTACGAA	TGACAGTGCT	AAAGATACGA
1950	2020	2090	2160	2230	2300	2370	2440	2510
TATGGCGTTA	CCAGAGATAA	ACAACTTAAA	AATCTTGCCA	TAAACGCAGG	CGCCCCAACT	GTTAAGGGTA	ATCGAACGGC	CACCGTGGCT
1940	2010	2080	2150	2220	2290	2360	2430	2500
CAAAACCGTC	ACTCGTATTA	TGGATAAAAA	AAAGATCAGT	AAGCCTACTT	GCAATGTTAC	TAAATTTAGT	AATGAAGTCA	CCAACGCTAT
1930	2000	2070	2140	2210	2280	2350	2420	2490
AAAGCACAAG	AATCGGCACT	GCACCATATT	CAGGTAATAA	CAAAGCCGCC	GCTAAGAGTG	GCACTAGTGA	AAGCTATCTA	GATGATGACG
1920	1990	2060	2130	2200	2270	2340	2410	2480
ACAGGCAGTC	CAACAGCAGC	TGAAAAACAA	GGCATTGATG	TCGAACAGCT	ATCAGTTGAT	AACAGTGATG	AACATTTGGC	Agaagaagac
1910	1980	2050	2120	2190	2260	2330	2400	2470
CCAGCCCAAT	AATGCAGAAA	GTGATGTTGA	CATAGACAAT	GCGGTTACCA	CTACTGAAAT	CACCGAGCTT	GTTACCGCCG	TTACCGTTAA
FIG.6D 1900 TAACCTTTAC	1970 GTTTACTAAT	2040 GCTCGAGATG	2110 TTGCAATTAC	2180 TGCTAACGAT	2250 AGTGTCACAC	2320 GCGTGAAAAC	2390 CAATAGCTTA	2460 CTACAAAGCT

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2590	2660	2730	2800	2870	2940	3010	3080	3150			
CTACCAAAAA	CCTAAACAAC	TTTACTAATG	TTGGCTTTGC	TGGCAATGTT	CTGCCTAGCA	CCAACGCTGC	CTTTGTCTCC	ACCGCTAACA			
2580	2650	2720	2790	2860	2930	3000	3070	3140			
CTAACGGTTG	GCAAAAGCAC	TGGCATTAAA	AGAGATAAAA	AGCTACAAGT	GTCCCCAACA	AAAGACAAAT	ACCCCATTGA	AACCCATGAT			
2570	2640	2710	2780	2850	2920	2990	3060	3130			
TAAAAACGGT	CTGACCATTG	TCGGTGCTAA	TCGCATTACC	GATCAAGACA	TCACAGGGCT	AATCCAAGAC	AATAATAACA	CCGCCACAGT			
2560	2630	2700	2770	2840	2910	2980	3050	3120			
AACTCAAAGG	AGATAGCGGT	CAAATĆCAAG	CAAATACCGC	ACCTTATCTT	GGTAAAGCCA	TGGGCAATAC	TAACCTAAAA	AATGCCACCA			
2550	2620	2690	2760	2830	2900	2970	3040	3110			
AGCATCTTAA	GGCTTAGCCA	TACCAACGAA	ACTGGCATTG	ATACAAACAA	TAACGCAGGT	AACATAGAAC	ATACAGGCTT	TGCCAATGGC			
2540	2610	2680	2750	2820	2890	2960	3030	3100			
CGGCGCAGTC	GTTACCTTTG	CTGTTAAAGA	TAATCCAGGT	GGTGCAGTTG	ACACTGGCAT	AAGTAGCCGC	GATATATTAA	TTGTTGACTT			
FIG.6E 2530 CAAAAAATGC	2600	2670	2740	2810	2880	2950	3020	3090			
	AGATGGTACG	GATGGCTTGA	TGAATGGTAG	TGGTTCTGAT	AAGATTACCA	TTGCCGATCA AAGTAGCCGC	CAGCATTAAT	ACTTATGACA			

U.	S. Pat	ent	Sep	. 15, 1998	3	Sheet 11	of 17		5,808,024			
	3220 CTGATGACAA	3290 AACTAACTTT	3360 AACACCCTAG	3430 AAAAGGTAGA	3500 TCAAGTCAAC	3570 ACCTTTGGCA	3640 TTAAAAACCC	3710 TAATGGTGTT	3780 ACTAATGGCT			
- - - - - - -	3210 CTAACAGGCA	3280 GTAATACAGC	3350 CGAAAATCTA	3420 TTTACCGTTA	3490 ACGCAAATAA	3560 TGGTACGGTT	3630 GGCTTGTCTA	3700 AGGTTAATAA	3770 CTTTACTGGG			
	3200 AACCATTCAT	3270 AGTGCTAATG	3340 AAGACATCGC	3410 CCTACAAACC	3480 GGTCAAAAGA	3550 CCGACAAAAA	3620 AAACGACGGT	3690 AAGTTTGCCA	3760 ATGAAATTGG			
	3190 TGGATGATAC	3260 GAACAAAACA	3330 GTTAACGCCA	3400 CAGACACCGC	3470 CATCACCGTG	3540 AATATTAAAA	3610 AAAGCACCCT	3680 TGATGGCGTG	3750 ATTACCAGAG			
	3180 GATGTGAATG	3240 3250 GGCGTCAAAA CCACCAAACT	3320 AGATGCCCTT	3390 AAAGGCACAG	3460 ACGCCAACGC	3530 AAACGGTCTT	3600 AAAGCCGGCA	3670 AAGTCGGTGC	3740 CACAACTCGC			
Ž4	3170 AGTGGTATAT	3240 GGCGTCAAAA	3310 CTAGTGATGA	3380 TCACACCACC	3450 AATGCTGATG ACGCC	3520 TCAAAGGTGA	3590 AAGCGGTCTT	3660 GAACAAATCC AAGTC	3730 GCATTGATGG			
FIG 6F	3160 AAACCAGTAA	3230 TAAAAAACTT	3300 AATGTTAACT	3370 CCAAGGAAAT	3440 TGAAAATAAT	3510 ACCCTAACAC	3580 TTAACACCAC	3650 CACTGGTAGC	3720 GTAGGTGCTG			

U.S. Pate	ent	Sep.	15, 1998	Si	neet 12 o	5,808,024		
3850	3920	3990	4060	4130	4200	4270	4340	4410
TTACCAACAT	TTTAAAAACC	TCAGTAGCAG	CCTCTGATGT	GGGCATTGAC	GTCATTGACA	ATAAAGGTAG	CATTGTTGAT	TATGACACCG
3840	3910	3980	4050	4120	4190	4260	4330	4400
GGTAAAAAGA	AGATTTATGA	ACACGAATTC	ACCTCAAAGA	TGGTGCGTGT	CAAAGGCATT	GTTACCAATG	GTGCCGCCAG	TGTCTCCACT
3830	3900	3970	4040	4110	4180	4250	4320	4390
TAACGCAGGT	ACAGGCGGCA	AAAACTCATT	CAGTTATGAC	AATAAAGGTG	ATAATAATGG	TCTAGCTAAT	GACAAAACCC	CGGTTGACTT
3820	3890	3960	4030	4100	4170	4240	4310	4380
AAGACGGCAT	TGATGCTGTG	AAAACAGCAC	ACCCTTACTC	CACCAAGGTA	ACCGTGGGTA	TÀAGCAACAC	CAAAGACGAA	AATGGTGAAG
3810	3880	3950	4020	4090	4160	4230	4300	4370
CACCTAAGCA	AAAACAGCCA	CAGTACTGCC	ACGGTTAGTA	ACGGCATTAC	GCCTAAGCTG	ATCACAGGAC	GCAATATAAT	CTTGCAAGGC
3800	3870	3940	4010	4080	4150	4220	4290	4360 4370
AAGCAAACCC CACCT	GAGATTGCCC	ACAAAATCAG	TAATAACTTT	GCAGGTGAAA	GCTTAACCAC	TCAAAATACC ATCACAGGAC	ACAGAACAGG	CAGGCTTTAA CTTGCAAGGC
FIG.6G 3790 CACTTGATAA	3860 TCAATCAGGT	3930 GAACTTGAAA	4000 ATGAACAAGG	4070 CATCACCTTT	4140 CAAACCAAAG	4210 GCCAAAATGG	4280 CGTACGCACC	4350 GTGCTAAGCG

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	4480 CCAGTAAAGT	4550 AAAAACCACC	4620 GATGCGCTTG	4690 AAGGGGCAAG	4760 TACCGATAAC	4830 AAACTGGTCG	4900 AAGAACAAGT	4970 AAAAGCCGCT	5040 ACACCGCTGA	
* Tsa	4470 ACAAGCAAAA	4540 AACTTGGCGT	4610 AGCTACTGGC	4680 CAAACTGCCA	4750 TCTATGACAG	4820 TGCCAAAGAC	4890 GTCATTAACA	4960 AAGGACTTGA	5030 CGTTGCCCAA	
	4460 CTATGATGAC	4530 AAAGATAAAA	4600 TAAGCAATCA	4670 TGGCGACATC	4740 AATAAGGTCA	4810 CCAAAGAAGT	4880 TGTCAAATCA	4950 GCCTTTGTTA	5020 ATTTAAATGC	
	4450 CTAAGGTGAC	4520 CATTGAAGTT	4590 AAATTTGCCC	4660 ACACCTTATC	4730 TGCTGATGGC	4800 GTTGATAAAA	4870 CTCAAATGAA	4940 TGAAGACAAC	5010 ACTGTGGGTG	
	4440 GCCACCACCG	4510 ATGATACAAC	4580 AGGTGCTAAT	4650 GCTCATCTAA	4720 GCTATGTGGA	4790 TGATGGCACA	4860 GGCACATTGG	4930 AAGGCATCAA	5000 CGCCGCAGTA	
	4430 CGATGGCAAT	4500 GTCAATGTGG	4570 GTACTGGCAC	4640 TGATATCGTT	4710 AACTCAGCAG	4780 AAGCCAAAAA	4850 AACCCCAGAT	4920 AATAAAAAGC	4990 AAACCAAAAA	
FIG.6H	4420 TCAACTTTGC	4490 GGTCTATGAT	4560 ACATTGACCA	4630 TCAAGGCCAG	4700 CCAAGCGAAC	4770 AAGTACTATC	4840 CCCAAGCCCA	4910 AAATGATGCC	4980 TCTGATAACA	

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5110	5180	5250	5320	5390	5460	5530	5600	5670	5740
GTGGGCAAAC	TGTCAAACTT	GGCGTGTCTT	ACCTGGGTGG	GTTAAACGAA	AACATTGCCG	CGGTACTTGG	TAAAGACGGC	GCCCTGCTCG	ACAGAATAAA
5100	5170	5240	5310	5380	5450	5520	5590	5660	5730
ACCATCAAAG	ATGGČTTCAC	TGATGACAAA	AATGGGCTGG	ATGTACAACA	CAATCAGGTA	AAAGCAGGCA	TGGGCGTGGA	CAGCAAAAA	GAAGCCATTG
5090	5160	5230	5300	5370	5440	5510	5580	5650	5720
CGAGACTTTG	GCAGGTACTG	GCACCAAAAT	GCTAAGTGCC	GACGCTGCCA	ACGCTGACGG	CACTGTCATC	GGTATACAAG	AAAAAGATGG	CAACCCCGCA
5080	5150	5220	5290	5360	5430	5500	5570	5640	5710
AAAAACTGGG	CGGȚGTGGTA	AATGCAGGTG	ACACCCCTGT	AAAAGATACC	GGTAATGATA	CATCTAACCG	TGCCACTGGT	GTCAAAACCC	ATTTGACCAA
5070	5140	5210	5280	5350	5420	5490	5560	5630	5700
ACAACGGCTA	ATAATAACAT	TAACAGCGTT	GCCAAAGCAA	GCAAAGGCAC	TGGTAATGCT	TCAGGTTCAT	CCGAAAAACT	CAATGTTTGG	CAGACCAACT
5050 5060	5130	5200	5270	5340	5410	5480	5550	5620	5690
CCTTTGCAGG GGATACAGGC	AAGCTAACCG	TAACCAATCT	AAGCGGTCAA	AGTAATGTGG	TGTTGGGTCT	AGACCCAAAT	AATAACGATA	GCGATTTAAG	CGCCGCAĢGT
5050	5120	5190	5260	5330	5400	5470	5540	5610	5680
CCTTTGCAGG	AGACACCAAT	GCCAAAGACC	TTGTAGACTC	CAAGGTCATC	GTACGCAACT	ACATCAAAAA	CGGTAAAGGT	AACGCTAACG	CCACTTATAA

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	5810	5880	5950	6020	6090	6160	6230	6300	6370	6440
	GCGTAACGGC	GGTGAAGCCG	CACAAGCCAC	CATCGGCGAC	GCCACTCAAA	GTTCAAACTC	TACAACCACC	TCCGTGGGTG	CCGATGCGGT	CCATCGTATC
٠.,	5800	5870	5940	6010	6080	6150	6220	6290	6360	6430 6440
	TGGTACAAGG	CAAGGCAGAT	GGTGATAACG	ACTCTGGTGC	GTTTACCGAT	GTTGCCTTAG	GCACAGCAGG	TGGTGCGGTC	GCCACCAGCA	ATGAGCTTGA CCAPCGTAPC
	5790	5860	5930	6000	6070	6140	6210	6280	6350	6420
	CAAGAGCCTG	GTTTCCAGGC	CATCGCCATC	GCAGGTAAGC	ATAACAACCA	AAGTAACTCG	AAATCTGACG	AAACGGCGGT	TGAGGTCAGT	AACGCAACCA
	5780	5850	5920	5990	6060	6130	6200	6270	6340	6410
	CGATGGCAAT	GTGGCGATAG	GCAACCAATC	CAATGTGGTA	AGTGTGGGTA	CCGTGACCGA	ACAAGCCAAA	TTTGCTGGAC	TGGCAGCAGG	AAGCATTGCC
(5//0	5840	5910	5980	6050	6120	6190	6260	6330	6400
(TCCATGTCAA	CAAGCACTCA	ACCCAAGCAG	TCGGTACAGG	TAACAGTTAC	AATAACATCA	ACGCAGGCAC	GGTTAAAGGC	ATCCAAAATG	AAGCCACCCA
	ATCCGCTTCT	5830 GTGCCTCAGG	5900 AGCCAGACAA	5970 TCCATCGCCA	6040 TTAAGGCTGA	6110 TGGTGTGGGC	6180 GCAGGCACAC	6250 CAACCGGTAC	6320 TGAACGCCGT	6390 CAGTTGTACA
7770	TGAACAAGGT	5820 ATTGACTCAA	5890 CCGTTGCCAT	5960 GGGCGATCAA	6030 CCAAGCACTG	6100 CCGATGTCTT	6170 6180 TGCCATCAGT GCAGGCACAC	6240 ACAGCAGGTG	6310 CCTCAGGTGC	6380 CAATGGTAGC

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6510 CCACAAGCCT	6580 TGGCAGTGGG	6650 CCAAGGCCAT	6720 AAAAATCAAT	6790 TATCACTTAA	6860 AAACTTATTG	6930 GACCGATTTA		·
6500 GGCGTCCATG	6570 CAAGGTGCGG	6640 CAGCCGATAC	6710 GATTTTACTT	6780 TGATGTTTT	6850 GATCATAGGT	6920 ACCAAAAAAT	·	
6490 CGATGGCGAT	6560 CCACAACGGT	6630 ATCAATGGTT	6700 TAAATCGCAA	6770 TTACTGATGC	6830 6840 ACCATGACCA AATCGCCATT	6910 TGTGCCATTG	GAC	÷
6480 ATTTCATCAG	6550 GTATTGCCAC	6620 GGTATTTAAA	6690 TTTTAAGCCA	6760 ATCAGTCATA	6830 ACCATGACCA	6900 TGGTTAAAAT	6970 CCTGCAGGTC	
6470 CAATGCAGGG	6540 GTTACCGGGG	6610 ATGGTCAATG	6680 AGGTTTTCAC	6750 CAGCATCAGC	6820 ATTCTCTTTC	6890 TTGTTAGATA	6960 GATCCGTTGA	·
6460 AAAATAAGGC	6530 CAGATCCATG	6600 6610 CTGTCGGATA ATGGTCAATG	6670 CAGTTGGTGC	6740 TTGTATAAAA	6810 CGCTCAAGTG	6880 ATCAATGTAG	6950 TTCTGATTAT	985 s .
FIG.6K 6450 caccaaaacg	6520 ACATTCCTGG	6590 ACTGTCGAAG	6660 GTAGGGGCGG	6730 CTCACCATAG	6800 ACCATITIAC	6870 AGTAAATTTT	6940 TCCCGAAAAT	

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6858 TTG	35, CCB CCB	9969 9969	
TTA	6 TGA	6966 TGC AGG	
6831 CCA TGA CCA AAT CGC CAT TGA TCA TAG GTA AAC TTA	TGC CAT TGA	ACC	
GTA	TGC	TTG ACC	•
TAG	TTG	ອວວ	
TCA	TTA AAA TTG	GAT	
TGA	TTA	TAT	
CAT		GAT	
ວອວ	ata TGG	TCT	
6831 AAT	6885 TAG	6939 ATT	
තු ජු	TGT	6939 CCG AAA AIT	
TGA	AGT		
S	TGT	ATC	
TCA	CARA	TTT ATC	
AGT GAT TCT CTT TCA	TAT	aaa aat gac cga	
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	GCG	Ala
	GGT	Gly
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v	GGT	gly
		Asn
	CAC	His
	ACC	Thr
	GCC	Ala
	ATT	Ile
		Gly
		Gly (

CAA Gln	34/47 969 34/47
ACC Thr	6 AAT
gat Asp	6696 TAA GCC ATA AAT CGC
35 71	ggc
Gly Ser	
GGT Gly	TTT Phe
VAT Vsn	CAC
r AAA ATC A Lys Ile A	TTT Phe
aaa Lys	GGT
GTA TTT Val Phe	6669 GCA
GTA	GGT
${f TGG}$	6669 ICA GTT GGT GCA GGT la Val Gly Ala Gly
CAA TGG	GCA
GGT	GCG
AAT Asn	GGG
gat Asp	GTA
TCG	CAT
CTG	GGC Gly
CLID	CTITLIT

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6804 CGC TCA TTT TAC TTA TCA CTT AAA CCA CAG TCA TAT TAC TGA TGT TGT TTT

GGC

FIG.6 con't.

CGT Arg GGT Ser TCA Gly Val 6291 TCC Ser Val gcg GGT Gly GTT Val GCG Ala ACG CAA GGA Gly

GTC AAT Val Asn Asp GAT ACC Thr AGC Ser ACC GCC Ala Ser AGT 6345 GAG GTC Glu Val GGT Gly GCA Ala GTG Asn AAT CAA ATC

33/47 CTT CTT Leu Asn ACC Ala GCA AAC Asn gaa Ala Ile ATT AGC Ser 6399 CAA Gln 5 ACC GCC AAA Lys TAC TTG Gln AGC Ser GGT

GCG 6480 Asn AAT AAG Lys 6453 GAA AAT Glu Asn AAC Asn CAA CAC ATC Ile CGT CAT His Asp SHEET

TCC AGA CCT ATT TAC 6507 GCC Ala Gln CAA CCA ATG MET TCC Ala GCG

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Ser Val	. Val Gly	Asn	Asn	Asn (31n	Phe	Thr	Asp	Ala	Thr	Glu	Thr	

6102 TTT GGT Phe Gly

GTC

GAT Asp

	32/4	7			
AAC	Asn	6183 6210 CAC GCA GGC ACA GCC AAA AAA TCT GAC GGC	Gly	6264 GCT	Ala
TCA	Ser	GAC	Asp	TTT	Phe
GGT	Gly	TCT	Ser	299	G1y
TTA	Leu	AAA	Lys	AAA	Lys
D D	Ala	AAA	Lys	GTT	Val
GTT	Thr Val Thr Glu Ser Asn Ser Val Ala Leu Gly Ser Asn	gaa	Ala	ACG	Thr Thr Ala Gly Ala Thr Gly Thr Val Lys Gly Phe Ala
T L	Ser	CAA	Gln	GGT	Gly
744	Asn	ACA	Thr	ACC	Thr
₽ CT	Ser	gga	Gly	GCA	Ala
445 445	Glu	5183 GCA	Ala	6237 GGT	g_{1y}
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744	Asn Asn	AGT	Ser		Thr
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	Ser	299	ile Gly A	gac	Gln Ala		CAC	
GTG	Val	AGA	Arg	ACG	Thr		TOI	Ser
	Ala	CAA	Gln	299	Gly		GGT	
	Ile	ACC	Thr	GAT	Gly Asp			
Ü	Ö	S	Gln Ala Gly Asn	CAA TCC	Gln	:	ATC	Ala Ile Gly Asp Pro Ser
TTC	ly Phe Gln Ala Lys	GCA	Ala	TCC	Ser	:	U U U	Gly
CAG.	Gln	ວອອ	Gly	ATC	Ile	w ·	GAC	Asp
5859 GCC	Ala			5967 GCC	Ala	6021	S	Pro
AAG	Lys	CAA	Gln	ATC	Ile		AGC	Ser
GCA	Ala Asp	CAA TCC	Ser	GGT	Gly		ACT	Thr
GAT	Asp	ATC	Ile				GTT	Val Lys 1
GGT	Gly	gaa	Ala	299	Gly		AAG	Lys
GAA	Gly Glu Ala Ala Val	GCC ATC GGT GAT	Ile	AAT	Thr Gly Asn Val		GCT	Ala Asp
OCC C	Ala	GGT	Gly	GTG	Val		GAT	Asp
S S S S S	Ala	GAT	Asp	GTA	Val		AAC	Asn
GTT	Val	5940 AAC GCA	Asn	GCA	Ala Gly	·	AGT TAC	Ser
5886 GCC	Ala	5940 GCA	31/4 er	5994 ⁷ GGT	Gly	6048	TAC	Tyr
				_				

FIG.6 con't.

TTA Leu Asp GAT GGC G1yAAC Asn GCT Ala AAC Asn GGC GAC Asp AAA Lys SS89 GAT ASP GTG GGC GTG CAA Gln ATA GGT Gly GGT Gly ACT

30/47 CTC GCC Leu Ala 5670 GCC GAA Glu Leu CTG GCA Ala GCC Pro CCC AAA AAC Asn AAC Asn AAA Lys ACC AGC Ser GGC Gly TTG Leu Asp GAT TAT Tyr 5643 CAA AAA Gln Lys 5697 ACC AAC Thr Asn CAG Gln ACC AAA Lys GGT Gly GTC GCA GCC TGG AAC Asn GTT Val AAT Asn TAT Tyr Ser AGC ACT

S778 AAT 66C 61y GAT Asp AAC Asn GTC Val CAT TTC TTC Phe CGC S751 ATC Ile GGT CAA GAA Glu AAT ATA Ile AGA Arg GAC ATT

5832 AAG Lys GGC G1yGCC AGT Ser TCA Ser GAC Asp ATT GGC 5805 AAC Asn CGT Arg 999 Gly CAA Gln GTA GTG CCT Pro GAG CAA

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5400 TTG	Leu	5454 ATT	29/4 H	o t	ile	5562 GCC	Ala
AAC	Asn	AAC	Asn	נו בו נו	Val	CIT	Leu
CGC	Arg	GTA	Val	<u>د</u> د	Thr	AAA	Lys
GTA	Val	CAG	Gln	ئ ئ	Arg	GAA	Glu
GAA	Glu	AAT	Asn	ر د د	Asn	ACC	Thr
AAC	Asn	GGC	Gly	Ę	Ser	GAT	
TTA	Leu	GAC	Asp	Ę	Ser	AAC	Asn
CAG	Gln	GCT	Ala	ć E	Ser	AAT	Asn
CAA	Gln		Asn		G1 y	GGT	Gly
5373 GTA	Val	5427 AAT GAT	Asp	5481	Asn Ser	5535 AAA	Lys
AAT	Asn Val			7.5	Asn	GGT	
ပ္ပင္သ	Ala	GGT	Gly	ָל נ	Pro	ညည	Gly
GCT	Asp Ala Ala	GCT	Ala	ر ا	Asp	CTT	
GAC	Asp	AAT	Asn	800	Lys	GTA	
ACC	Thr 1	GGT	Gly	44	Lys Lys	ACG	Thr
GAT	Asp	CII	Leu	Ę	ile	GGC ACG	Gly
AAA	Lys	GGT	Leu Gly	ָר מ	Asp	GCA	Ala
ACA	Thr	TTG	Leu	ָ טַ	Ala	AAA	Lys
		S	UBST	ΓIT	UTE	SHE	ET

FIG.6 con't.

	28	3/47	
SIB4 AAA Lys	5238 AAA Lys	5292 CTA Leu	5346 GGC
GCC Ala	gac Asp	5 GTG Val	AAA 5
CTT	gat Asp	CCT	29 8 8 8
aaa Lys	ATT Ile	ACC Thr	GTG
GTC AAA CTT GCC AAA Val Lys Leu Ala Lys	aaa Lys	AAC Asn	AAT
GTA GCA GGT ACT GAT GGC TTC ACT Val Ala Gly Thr Asp Gly Phe Thr	GCA GGT GGC ACC AAA ATT GAT GAC AAA Ala Gly Gly Thr Lys Ile Asp Asp Lys	CAA GCC AAA GCA AAC ACC CCT GTG CTA Gln Ala Lys Ala Asn Thr Pro Val Leu	5319 GAC CTG GGT GAG GTC ATC AGT AAT GTG GGC AAA GGC Asp Leu Gly Gly Lvs Val Ile Ser Ash Val Gly Gly 1.1.
TTC	66C 61y	AAA Lys	ATC
GGC	GGT G1y	GCC	GTC Val
gat Asp	GCA	CAA Gln	AAG
ACT	5211 AAT Asn	5265 GAC TCA AGC GGT Asp Ser Ser Gly	5319 GGC G1y
GGT Gly	GTT Val	AGC Ser	5 GGT Gly
GCA Ala	5211 AAC AGC GTT AAT Asn Ser Val Asn	TCA	CTG
GTA Val	AAC	gac asp	gac Asp
GTG Val	CIT	GTA Val	CTG Leu
GGT Gly	AAT Asn	TTT Phe	GGG Gly
ATC Ile	ACC	TCT Ser	AAT
AAC	CTA	GTG Val	GCC
AAT	GAC Asp	GGC Gly	AGT

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7107	* 1	AAA	LyB
	•	AAT	Agn
	1	いい	Ala
	E #	SAI	ABP
	E	THE	s Ser Val Ile Asn Lys Glu Gln Val Asn Asp Ala Asn Lys
	Ę	5	Val
	ر د د	5	Gln
	K K C	5	Glu
	200	ξ,	LVB
4887	700	, ,	Agn
4	ATT		116
	CHU) :	Val
	TCA	;	Ser
	AAA		977
•	GTC AAA		Val
	AAT		Agn
	ATG		MET ABD VAL
	CAA		uTS

27/47 4968 5022 GTT Val GCT AAA GAA Glu TTA Leu CIT GAT GGA GGT AAA Lys GTG ACT Val Phe GTA 4941 AAC GCC Asn Ala 4995 GCA GCC (Ala GAC Asp AAC Glu GAA AAA AAT Asn ACC ATC Ile AAA Gly AAC CAA Gln

Asn

Leu

Asp

Gly

Val

Thr

Val

Ala

Asn

Lys

Thr

Lys

Asn

Asp

Ser

CTG Leu AAA Lys AAA Lys GCT ACG ACA GGC Thr ACA GAT Asp 5049 GGG Gly **GCA** ACC CTG Pro B C C C Thr

5130 GAT Asp Lys AAG Asn AAT ACC GAC Asp Glu 999 5103 AAA Lys ATC ACC Thr TIG Leu GAG Glu GGC

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4698	AAC	Asn	4752	ACC	Thr	4806 4806	Lys Glu	4860	GCT	Leu Ala
4	GCG AAC	Ala	4	AGT	Asp Ser Thr	4 4 4	Lys	.4	TTC	Leu
į	S S	Gln		GAC	Asp	r D	Thr	! !	ACA	Thr
į	AGC	Thr Ala Lys Gly Ala Ser Gln		TAT	Tyr	444	Asp Lys Thr	1	C C C C C	Gly
į	SCA CCA	Ala	1	ATC	Ile	T 47	Asp	· [GAT	Ala Gln Thr Pro Asp
7	999	Gly		GTC	Gly Asn Lys Val Ile	ن ت	Val	1	ないい	Pro
	AAA	Lys	. (AAG	Lys	808	Asp Gly Thr Val	į į	ACC	Thr
7	U U U	Ala	. 1	AAT	Asn	ָרָי <u>ָ</u>	G1 Y		CAR	Glu
			; ;	U U U	$_{ m G1y}$	TAD	Asp	į	S S S S S	Ala
4671	GGC GAC ATC CAA	GIn	4725	GAT	Ala Asp	4779 TAA	Lys Asn	4833	CAP	Gln
7 E	ATC	H H		GCT GAT	Ala	AAA	Lys	4	ပ ၁	Ala
ţ	GAC	Asp	1	GAT	Asp	O C C	Gln Ala	Ē	5	Val
Ţ) (၁)	Gly	1	GIG	Val	CAA	Gln	Ę	21.5	Leu
Ę	֓֞֝֝֝֓֞֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֝֓֡֓֓֡֝֝֓֓֓֡֝֝֡֓֡֓֡֝֡֡֝֡	Ser	1	TAT	TÝT T	TAT	TYE	•	AAA	Lys
	TTA		{ {	SCA GGC	Glγ	TAC	Tyr	ţ	GAC	Asp
Ç	AC.	Thr	į	4 5	Ala		Lys	•	AAA	Lys
	AAC		. [TCA	Ser	AAC	Asp Asn	7 7) (၁	Ala
É	CIA	Leu	1	AAC	Asn	GAT	Asp	Ē	1.15	Val

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7044	GIC	Val	4536 GGC	Gly (1590	Leu	1644 184	His
T	GTG	Val	CTT	Ile Glu Val Lys Asp Lys Lys Leu Gly	7 0	Ala	ا با	Ala
	AAA	Lys	AAA	Lys	. [TTT Phe	<u>ئ</u> ىلىدا ئىلىدا	Val
	AGT	Ser	AAA	Lys	•	AAA Lys	£	Ile
	ACC	Thr	GAT	Asp		AAT	E A	Asp
	AAA	Lys	AAA	Lys	į	GCT	T.	Ser
	AGC	Ser	GTT	Val	Į Į	GGT Gly	ָ ֖֖֖֖֖֖֖֖֓֞	Ala
	ACA	Thr	GAA	Glu	•	ACA	() ()	
	GAC	Asp	ATT	Ile	1	660 617	ָר בּי	Val
ののやや	GAT	Val Thr Tyr Asp Asp Thr Ser Lys Thr Ser Lys Val Val	4509 GAT GAT ACA ACC	Thr	4563	TTG ACC AGT ACT GGC ACA GGT GCT AAT AAA TTT Leu Thr Ser Thr Gly Thr Gly Ala Asn Lys Phe	4644 4644 THE THE THE TEE TOO DEE THE THE TOO DEE	Leu
Ţ	TAT	Tyr	ACA 4	Thr	4	AGT Ser	ָל נ <u>י</u>	Ala
	ACC	Thr	GAT	Asp	 	ACC Thr	Ę	Asp
	GTG	Val	GAT	Asp	1 !	TTG	ָ כ	9 91 91<
	AAG	Lys	GTG	Val	; ;	ACA	<u>د</u> د	Thr
	GCT	Ala	AAT	Asn		ACC	ָ נ	Ala Ala
	ACC	Thr Ala	GTC	Val	·	ACC	ć	AAI CAA GCI Asn Glu Ala
	ACC	Thr	GAT	Asp		AAA	E #	Agn
	GCC	Ala Thr 1	TAT	Tyr		GTA	Ç	AGC APT
				•				

FIG.6 con't.

	. 24	147					
GGT CAA Gly Gln	4266 AAA GGT Lys Gly	320 CGT Arg	4374 AAT GGT Asn Gly	4428 GGC AAT Gly Asn			
GGT Gly	AAA Lys		AAT Asn	GGC 1			
AAT	GAT	AAA Lys	GGC Gly	gat Asp			
CAA	AAT	GAC Asp	CAA	GCC			
AGC	ACC	GAA	TTG	TTT Phe			
GAC	GTT Val	aaa gac gaa gac Lys Asp Glu Asp	ASD	AAC Asn			
ATT Ile	AAT Asn	AAA Lys	TTT	GTC AAC Val Asn			
GTC Val	GCT Ala	ATC	66C 61y	ACC			
ATT	CTA	ATA	GCA Ala	gac Asp			
660 617	4239 AAC ACT Asn Thr	4293 GGC AAT Gly Asn	4347 CTA AGC Leu Ser	4401 ACT TAT Thr Tyr			
AAA	AAC Asn		CTA	ACT Thr			
GGC Gly	AGC	GAA CAG Glu Gln	GTG Val	TCC			
AAT	CTA	GAA Glu	GAT	GTC Val			
AAT Asn	gga g1y	ACA Thr	GTT Val	TTT Phe			
AAT	ACA Thr	ACC	ATT Ile	gac asp			
GGT Gly	ATC Ile	CGC	AGC Ser	gtt Val			
GTG Val	ACC	GTA	GCC	GCG Ala			
ACC	AAT Asn	AGC	GCC	GAA			
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	23	147	
CAA	4050 ACC Thr	4104 AAA	4158 CTG
GAA Glu	AAG Lys	AAT Asn	AAG Tys
gat Asp	TCA	GTA	CCT
CAA AAC TCA TTA CAC GAA TTC TCA GTA GCA GAT GAA CAA Gln Asn Ser Leu His Glu Phe Ser Val Ala Asp Glu Gln	4050 TAC TCC AGT TAT GAC ACC TCA AAG ACC Tyr Ser Ser Tyr Asp Thr Ser Lys Thr	4104 TTT GCA GGT GAA AAC GGC ATT ACC ACC AAG GTA AAT AAA Phe Ala Gly Glu Asn Gly Ile Thr Thr Lys Val Asn Lys	4158 GGC ATT GAC CAA ACC AAA GGC TTA ACC ACG CCT AAG CTG
GTA Val	gac asp	ACC	ACC
TCA	TAT Tyr	ACC Thr	TTA
TTC Phe	AGT	ATT Ile	GGC
gaa glu	TCC	GGC	AAA
CAC His.	TAC	AAC	ACC
A TTA	4023 CCT Pro	4077 GAA Glu	4131 CAA
TCA	AAC Asn	GGT Gly	GAC
AAC	4023 GTT AGT AAC CCT Val Ser Asn Pro	GCA	ATT
CAA Gln	GTT Val	TTT Phe	GGC
GCA	ACG	ACC Thr	GTG
AAA ACA Lys Thr	TTT Phe	ATC	CGT
AAA Lys	AAC	GTC	GTG
GCC	AAT Asn	gat Asp	GTG
ACT GCC F Thr Ala I	GGT	TCT Ser	GGT

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	22	147	
TCA Ser			3942 AGT Ser
66C G1y	GGT G1y	GCT Ala	AGC
AAT Asn	GGT	GAT	ATC Ile
ACT	GCA	CAT His	aaa Lys
$\frac{GGG}{G1\mathbf{y}}$	AAC Asn	AGC	AAC Asn
ACC AGA GAT GAA ATT GGC TTT ACT GGG ACT AAT GGC TCA Thr Arg Asp Glu Ile Gly Phe Thr Gly Thr Asn Gly Ser	3834 GAC GGC ATT AAC GCA GGT GGT AAA Asp Gly Ile Asn Ala Gly Gly Lys	3888 CAA TCA GGT GAG ATT GCC CAA AAC AGC CAT GAT GCT GTG Gln Ser Gly Glu Ile Ala Gln Asn Ser His Asp Ala Val	3942 TTA AAA ACC GAA CTT GAA AAC AAA ATC AGC AGT Leu Lys Thr Glu Leu Glu Asn Lys Ile Ser Ser
TTT Phe	GGC	CAA	CTT
GGC Gly	gac asp	GCC	GAA
ATT Ile	AAA Lys	ATT Ile	ACC
GAA Glu	3807 CTA AGC AAA	3861 GAG Glu	3915 AAA
GAT Asp	CTA	GGT	TTA
aga Arg	CCC CAC Pro His	TCA	TAT GAT Tyr Asp
ACC Thr	CCC	CAA Gln	TAT Tyr
ATT	aaa Lys	ATT Ile	ATT Ile
CGC Arg	AGC	AAC Asn	AAG Lys
ACT	aaa Lys	ACC Thr	GGC
ACA	gat Asp	ATT Ile	GGC Gly
GGC Gly	CTT Leu	AAG Lys	ACA

3726 GAT ASP

GGC

GCT

GGT

GTA

GTT

GGT

AAT Asn

3699 AAT AAT Asn Asn

GTT Val

AAG Lys

GTG, AAG Val Lys

GGC

FIG.6 con't.

	21	147	
CTC	3564 TTT Phe	618 GGT Gly	3672 GAT ASP
3510 ACA CTC Thr Leu	3 ACC Thr	3. Aac gac Asn Asp	GCI
CTA Leu	GTT Val	AAC	GGT
AAC ACC Asn Thr	ACG Thr	CTA	GTC Val
AAC Asn	GGT G1y	ACC	CAA Gln
GTC Val		AGC	CAA ATC Gln Ile
CAA	gac aaa aat asp Lys Asn	GGC AAA AGC Gly Lys Ser	CAA
AAT AAT CAA GTC Asn Asn Gln Val	GAC	GGC	GAA CAA Glu Gln
AAT Asn	ACC	GCC	AGC
3483 GCA Ala	3537 ATT AAA Ile Lys	3591 AAA LYS	3645 GGT G1Y
AAC Asn	ATT Ile	CTI Leu	ACT
3483 CAA AAG AAC GCA Gln Lys Asn Ala	AAT Asn	AGC GGT Ser Gly	CCC
CAA Gln	CTT	AGC	AAC
GGT Gly	GGT	ACA Thr	AAA Lys
GTG Val	AAC	ACC	ATT Ile
ACC Thr	GAA Glu	AAC	TCT
ATC	GGT Gly	ATT Ile	TTG
GCC Ala	AAA Lys	GGC Gly	66C 61Y
	CHRCTI	THTE C	

				20/4	7			
3294	GTT	da d	3348 CTA	Leu	3402 6m2	Leu	3456	Ala Asn
מו		Asn	AAT	Asn	ניי ניי	Ala) · · · · · · · · · · · · · · · · · · ·	acc Ala
	TTT	Pne	GAA	Glu	ָ ק	Thr	j j	GAT GAC Asp Asp
	AAC	Asn	CCC	Ala	ָר קל	Asp	Ė	Asp Asp
	ACT	Thr	GAC ATC GCC GAA AAT	Ile	ָר ל	The Lys Gly The Ala Asp The	Ę	Ala
	GCA	Ala	GAC	Asp	ָר נ	Thr		Asn
,	ACA	Thr	AAA	Asn Ala Lys	ָ נ	G1 3		Asn
	AAT	Asn ·	S G G	Ala	*	Lys		Asn
•	GGT	GLγ			t t	Thr		Glu
3267	AAT	Asn	3321 r GTT	Val	3375	Thr	3429	GIA GAT Val Asp
1-7	GCT	Ala	CILI	Leu	ָר ק	His	į	Val
	ACA AGT GCT	ស ភ	ggg	Ala	į	GAA All Glu Ile		GIT AAA AAG Val Lys Lys
	ACA	Thr	GAT	Asp	, ,	Glu	•	AAA Lys
	AAC AAA 1	Lys	GAA	Asp Glu Asp	· #	Lys		Gil Val
			GAT	Asp	7	Ala		ACC Thr
-	CTG	Leu	AGT	Ser Ser		Leu		ACC TTT 1
FIG.6 con t.	ACC AAA	Lys	TCT	Ser		Thr	1	ACC
<u>5</u>	ACC	Thr	AAC	Asn	1	Asn	!	e la
			SUI	BSTI	ľU'	TE	SHE	ET

ACA Thr	CAT His	ACT	TTA Leu
ACC	GAT Asp	TAT	TTA AAT AC Leu Asn Th
ATT	ACC Thr	GAC Asp	ACA Thr
CAT	GCT Ala	ATT 11e	719 ССС -
CTA	AAC Asn	GAC ATT GTT Asp Ile Val	TTT
3213 ACA GGC ACT GAT GAC Thr Gly Thr Asp Asp	AAA Lys	3105 GAC TTT GCC AAT GGC AAT Asp Phe Ala Asn Gly Asn	AAC Asn
GGC Gly	3159 ACC AGT AAA GTG Thr Ser Lys Val	TTT	CTA
ACT	AGT	3 900 91a	AAA Lys
3213 GAT Asp	3159 AAA Lys	AAT ASD	3051 AAA AAT Lys Asn
GAC Asp	GTG Val	61 <i>y</i>	AAT Asn
AAT Asn	GTA Val		AAC Asn
AAA Lys	TAT	GCC ACC Ala Thr	AAC CCC Asn Pro
AAA AAA Lys Lys	TAT GAT Tyr Asp	ACC Thr	01d 000
CTT	GTG Val	ACC	ATT 11e
GGC GTC Gly Val	AAT Asn	GCC	GAC Asp
GTC Val	GTG Val	ACA Thr	TTT
AAA Lys	3 GAT Asp	3 GTA Val	3 GTC Val
3240 ACC Thr	3186 GAT Asp	ACC LThr /61	TCC Ser
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808	C GAT	Asp
	GGT TCT	Ser
	GGT	G14
	LOD.	Ala
	TTT	
	GGG	Gly
	ATT	
	AAA	Lys
	GAT	Asp
T8/7	CC AGA GA	Arg
•	A.	H
	ATT	Ile
	CGC	Arg
	GCT	Ala
	ACC	Thr
	AAT	Asn
	GCA	Ala
	ATT	Ile

18/47				
2862 GGC G1Y		2970 CTG		
2 GTT Val	ACA Thr	GAA Glu		
CAA Gln	ATC	ATA Ile		
2862 CTA CAA GTT GGC Leu Gln Val Gly	GCC	AAC Asn		
AAG Lys	AAA Lys	CGC		
GAT CAA GAC AAG Asp Gln Asp Lys	2916 GCA GGT GGT AAA GCC ATC ACA GGG Ala Gly Gly Lys Ala Ile Thr Gly	CAA AGT AGC CGC AAC ATA GAA Gln Ser Ser Arg Asn Ile Glu		
CAA	GGT	AGT		
gat Asp	GCA	CAA		
CTT	AAC Asn	gat Asp		
2835 TAT TYT	Z889 GGC ATT Gly Ile	2943 GCC		
CCT	66C 61Y	2943 AGC ATT GCC Ser Ile Ala		
2835 AAC AAA CCT TAT Asn Lys Pro Tyr	AAC ACT Asn Thr	AGC		
AAC		CCT		
ACA	ACC Thr	CTG		
gat Asp	ATT	ACA		
GTT Val	AAG Lys	CCA		
GCA	GTT Val	TCC		
GGT	AAT	CTG		
SUBSTI	TUTE S	HEET		

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いひなん	GAT	Asp
7	AAA	Lys
	AAA	Lys
	ACC	Thr
	GCT	
	GTT	Val
	ACG	Thr
	CTA	Leu
	GGT	Gly
200	AAC	Asn
7	AAA	Lys
	GGT	Gly
	AAA	Lys
	CIC	Leu
	AAA	Lys
	TTA	Leu
	ATC	Ile I
		Ser

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2646	AGC		2700 GTC	Gln Val	2754	ACT GGC	7 7 0
(1)	AAA	Lys	CAS.	Gln		ACT	777
	ರಿಡಿದ	Gly	ATC	Ile	i	GGT	7 7 5
	ATT	Ile	CAS	Gln	1	r cca ggr a	7 4
	ACC	Thr	GAA	Glu	E	AAT	1100
	CIG	Gly Leu Ser Gln Asp Ser Gly Leu Thr Ile Gly Lys Ser	AAC	Lys Asp Thr Asn Glu Gln Ile	;	GTG AAT GGT AGT AAT	200
	GGT	Gly	ACC	Thr		GGT	7 7 7
	AGC	Ser	GAT	Asp	AAT	AAT	
	GAT	Asp	AAA	Lys		GTG	ያ >
2619	CAA	Gln	2673	Thr Val	2727	TTT ACT AAT	
•	AGC	Ser	ACT	Thr		ACT	1111
	CII	Leu	TIG	Gly Leu		TTT	7117
	GGG	Gly	ე <u>ე</u>	Gly	AAA	AAA	בי כ
	TTT	Phe	GAT	Asp		ATT	
	ACC	Thr	AAC	Asn		GGC 7	۲ ۲
	GTT	Val	AAC	Asn		AAT	701
	ACG	Thr	CTA	Leu		GCT	ATA
		$\mathtt{Gl} \mathbf{y}$		Thr		GGT	
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2376	T ACG	Thr
	GGT	G1y
	AGT	Ser
	GGT	$_{ m G1y}$
	AAG	Lys
	GTT	
	AGT	
	TTT	
	AAA	Lys
つなび	GAT	Asp
4	AGI	Ser
	ACT.	rnr
	ပ္ပည္သ	čT\$
	GAT	ASP
	AGT	Ser
	AAC	Asn
	CTT	
	GAG	nrs

2430 GTC AAT © Val Asn &	2484 . GAT
24 GTC A	24 GAT G Asp A
GAA (Glu	GAC (
AAT	GAA Glu
CTA	GAA Glu
TAT Tyr	aaa Lys
AGC	GTT Val
GCA	ACC
TTG Leu	TTT
2403 A CAT 1 His	2457 AGC
GAA Glu	CAA Gln
GCC	CTA CAA Leu Gln
ACC Thr	GCT
GTT Val	AGT Ser
TTA	gac Asp
AGC	GCT Ala
AAT Asn	ACG Thr
AAC	CGA

2538 \ GTC GCA GGG gaa AAA AAT Lys Asn ACA ACG GAT Asp 2511 GCT AAA Lys GTG ATC AAC Asn GCC GAC

2322 ACC ACC Thr Thr

AAA

GTG Val

GGC

AAC ATT Asn Ile

TAC

ACT

2295 GCC CCA Ala Pro

ACC

GTT Val

AAT Asn

GGC

AAG AGT Lys Ser

GCT

2106	7	Ile
C	A C C	Gln Leu Lys Val Gly Ser Val Ala Ile
	GTT	Val
	AGT	Ser
	GGT	G1y
	GTG	Val
	AAA	Lys
	CTT	Leu
	CAA	Gln
2079		
.,	AAA	Lys
	GAT	Leu Asp Lys Lys
	CCA TAT	Tyr
	CCA	Pro
<u></u>	GCA	Ala
FIG.6 con't.	AAA CAA GCA	Gln
FIG.(AAA	Lys

15	147	
2133 ATT GAT GCA GGT AAT AAA AAG ATC AGT AAT CTT GCC AAA Ile Asp Ala Gly Asn Lys Lys Ile Ser Asn Leu Ala Lys	3 CTC AAA GCC GCC AAG CCT n Leu Lys Ala Ala Lys Pro	2268 GTC ACA CCT ACT GAA ATA TCA GTT GAT Val Thr Pro Thr Glu Ile Ser Val Asp
GCC	AAG Lys	GTT Val
CTT Leu	GCC	TCA
AAT Asn	GCC	ATA Ile
AGT Ser	AAA Lys	GAA Glu
ATC	CTC	ACT
AAG Lys	arc gaa cag	CCT
AAA Lys	gaa glu	ACA Thr
AAT	ATC	GTC
2133 GGT G1y	2187 ACC Thr	AGT Ser
GCA	GTT Val	ATC Ile
gat Asp	2187 GAT GCG GTT ACC Asp Ala Val Thr	GGC
ATT	gat Asp	2241 GCT GGC ATC AGT Ala Gly Ile Ser
GGC Gly	AAC Asn	GCA GGC Ala Gly
GAC AAT GGC Asp Asn Gly	GCT	GCA
gac Asp	AGT Ser	AAC Asn
ATA	GGT AGC Gly Ser	TTA Leu
ACC	GGT	ACT Thr
JBSTIT	UTE SH	!FFT

				14/4	7				
	1890 TTA	Leu	1944 GGC	Tyr Gly	1998	GGC ACT	Thr	2052	GAT GAA Asp Glu
	AGT	Ser	TAT	Tyr	••	gg	Gly		GAT
	GAT AGT	Asp	GTC	Val		ATC			GTT Val
	AGT	Ser	ACC	Thr		GCA GCA	Ala		GAT
	TTG AGT	Leu	AAA	Lys		GCA P	Ala		GGT
	TTA	Leu	AGC	Ser		ACA	Thr		GAT
	GAA TTA	Ğlu	ACA	Thr		ACA	Thr		CGA
	GCT	Ala	AGC	Gln ser Thr ser		GAA	Glu		GCT
	ACA	Thr				GCA	Ala		TTT Phe
	1863 ACT	Thr	1917 : AGT	Gly Ser	971	AAT	Asn	025	AAA ATT GGC Lys Ile Gly
	AGT	Ser	GGC 1	Gly	(-1	AAT	Asn	"	ATT
	AGT	Ser	5	ľhr		ACT			AAA Lys
	AGT	Ser	AAT	Asn		TIT	Phe		gat Asp
	AGT	Ser	CCC	Pro Asn 7		AAG	Lys E		aga Arg
	GGT	s Val Gly Ser Se	CAG	Gln		GIC	ره) ا		ACC
J. Lit	GTA	Val	ACC	Thr		999	Asn Gly		ATT Ile
FIG.6 con't.	AAG	Lys	TTT	Phe		AAT	Asn		CGT
E G	GTT	Val	ACC	Thr		GTT	Val		ACT
			SU	BST	ITI	U.	TE S	H	EET

		•		
1674	GAT	1728 GCA TTA ACC GAT AAT AAT Ala Leu Thr Asp Asn Asn	1782 I AAA a Lys	.836 ACA Thr
	TTG GAT Leu Asp	1 AAT Asn	gcr Ala	ACC Thr
	GGT	gat Asp	GGT CTG AAA GTT AAA CTT GCT AAA Gly Leu Lys Val Lys Leu Ala Lys	1836 TTA AAT GCC ACA ACC ACA Leu Asn Ala Thr Thr Thr
	ATA Ile	ACC	aaa Lys	GCC
	GTA AAA ATA GGT Val Lys Ile Gly	TTA	GTT Val	AAT
	GTA Val	GCA	AAA Lys	TTA
	GAC	ACC AAC (Thr Asn)	CTG Leu	ACA
	ACT Thr	ACC	GGT	ACT
	AGT	GAG Glu	AGT	ACA
1647	AAC	AAA GGT GGT GCA Lys Gly Gly Ala	1755 GAT AAT ASP ASD	1809 CTT ACT GAG GTG AAT ACA Leu Thr Glu Val Asn Thr
	gat Asp	ggr gly	GAT Asp	GTG
	GAT	GGT	GCT	GAG Glu
	GGT	aaa Lys	GAG Glu	ACT
	TTT CAG GGT GAT Phe Gln Gly Asp	\TT []e	AAA Lys	
	TTT Phe	TTA ACT I Leu Thr	GTG GTA AAA GAG GCT val val Lys Glu Ala	AAT Asn
<u>ن</u> ې	ACT	TTA		AAC Asn
FIG.6 con't.	ATT Ile	ACT	GGT	TTA
E G	AGA	AAT	ATC	ACT
	~ .	I D. C. 200 Lan		

-	o o			BSTI					-	ีซี	Ä
<u>5</u>	GGT		Thr		Asp		I.D	Ser	٠	GAT (Asp i
FIG.6 cont.	ACT	CAG	Gln	7	Pro	• •	AAC	Asn	•	909	Ala
'n.	CGT	AGT	Ser	Ę F	LVS	7	TCT	Ser		GIC	Val
	GCT	GAT			Phe			Ile			Asn
	CAG Gln		Asn		61n			Lys		GTG	
	CTA	AAT	Asn		Ala		CGT	Arg			Ala
	CAG Gln	TCT	Ser) (Thr			Lys			Gln
-		AGA	Arg	£							Leu
1377	GGC AGT	. 1431 AGA CCG	Pro	1485	Asn Asn Asn Asn		1539 ATC ATC	Ile	1593	CTA GAA	Glu
	ATT Ile	SCC	Ala		Thr		AAT	Asn		B B B B B B	
	GCC		Tyr		LVS		GTC	Val		GTG	Val
	CTA			7	Ala			G1y			Val
	CTA GGT Leu Gly	4 50	Thr Pro	(G12	•	GCA	Ala		AAG	Lys
	CAA Gln	AAT	Asn	Č	Pro		GGT	Ala Gly		AAG TGG	Trp
	GGT		Thr		Leu		GTT	Val			Ala
	TCT	CAG)) E	Ser		AAT	Asn		AAG	Lys
	GTT	g					AAA	Lys		GAG	Glu
1404	GTT GTC Val Val	1458 GCA CTA	Leu	1512	Ile Glv		1566 AAA ACC	Thr	1620	GCT AAG GAG CGT	Lys Glu Arg
				12/4/	_						

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GGA GTG GCA ACT GCC AGT Ala Ser 1161 CAC His GGA AGC Ser GCA Ala ACC ACA Thr CGC FIG.6 con't. AGA Arg TAT

ATG

GCC

AAA AGT Lys Ser 124 GCT Ala ACA GCA Ala CGG ACA GGT TTT 1215 GCC Ala Asn AAC TCC TTT CAT His GGT CAG Gln GCA TAT

TCT Gla Gla GGC Gly GAG Glu GCC ACA GCC 1269 CTT GCC Leu Ala GCA Ala Leu TIG TCC TAT GCC

GCA CIT Leu GCC GCG ATA Ala Ile TTG GGA Leu Gly TCG Ser 1323 TCT AGC Ser Ser ACA GCA A GAT TCT Ser Gly ATT GCT

GAT Asp

AAT

GAT

AAG Lys

TCA

AAA Lys

TTA

GTA Val

GCA

CAT

AAC

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Щ

972 GTA Val	1026 CTT
gat Asp	1026 TTG CTT Leu Leu
$\texttt{GGT}\\ \texttt{G1}\gamma$	CAT
GGT	TTA Leu
ATC Ile	GAC
GCC	gat Asp
ATC	AGT
JCC	GGT
CAA GAG Gln Glu	ATC
GPA Gln Gln	999 GCC Ala
GGT Gly	ATT Ile
ACG Thr	cc rcg
GCT	GCC
GAT	gat Asp
ACC	GGT Gly
GGT Gly	AGT
ATA Ile	GCT Ala
AAG Lys	AAG Lys

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GAT

AAC

CTG

ACT

GGT

AAA Lys

AAA Lys

CCT

AAT Asn

GGT

CAT

CAG Gln

GAT

		ç	9/47				
702	756	Thr	810 AAG	864 GGT	GIV	918 GAT	Asp
Ę			GCC	ပ္ပဗ္ဗ	715	TTG	
Ę		LVS		CAG	uT5		
֖֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		LVS	GGC ACT Glv Thr	4 J	Ala	AGC	Ser
ני)	Gln Lys Lys Asp	TCA GGC ACT Ser Gly Thr	AAC	ASII	GGA	Gly
ያ ተተ				GCT	1	GTC AAT GGA AGC AGT	Asn Gly
Į.		TVE	AGA	AAT	ASII	GTC	Val
J.		Ala le 1	783 AAC CAG CCA AGA CGC Asn Gln Pro Arg Arg	GAA	77.		Thr
للبلبل	729 22 22 267	Gly Ser Ala Peptide 1	CAG Gln	GGT	ptic		Lys
675 AGC	729	Gly		837 ATT	4	891 AAT	Asn
CTG	AGT		CAA Gln	GCT			Ser
ACT	CTC	Leu	GAA Glu				
TGC	ACG	Thr	GGT GAA Gly Glu	GCC	5	GGT	<u>G</u> 14
GTA	GCA	Ala	ATT Ile	CGA		ATC	Ile G
AGT	GGT	Gly	GCA Ala	GAT		ည်	Ala
3't. GGC	ATC	Ile	ATC Ile	GGT		ATC	Ile
FIG.6 con't.	GTG	Met Ile Gly Ala Thr	AAA CAT ATC GCA ATT GGT GAA CAA Lys His Ile Ala Ile Gly Glu Gln	GCG GAC GGT GAT CGA GCC ATT	2	ນູ	Ala
E S	CHC		aaa Lys	GCG		CAA GCC ATC GCC ATC GGT AGT	Gln
	CHE	CTI	Tilte	Cileen			

		0.147		
486	ATT	8/47 8/47 8/47	594 CAG	648 GGG
	CTA	CCA	TGG	ACA
	ACC	TTT TAA GGT AAA	TTA	GCT
	TTT	GGT	CAT	TGT
	CCA	TAA	GCA	AGC
	GCA	LLI	ACA AAG CCA CAG GCA	CGG GGG GGT' AGC
	TAC		CCA	චචච
	TTT GTA TAC	GTA TCA TTT	AAG	විදිව
	TTT	GTA	ACA	0 0 0
459	GTG	513 CAT	567 TTA	621 GCA
	GAT	CAG	TCT	AT CCC ACA
	AGT	TGT	TCA	CCC
	TCA	CTA	AAG	R
	CAT TCA AGT	TGC	ATA	CCA
	ATT	AAA	TCT	ACG
ني	CAG	ATC	ACA	AGT
FIG.6 con't.	AAT CAC CAG ATT	ATT TCA ATC AAA TGC	TGA ATC ACA TCT ATA	TGG CAG AGT ACG CCA
FIG.6	AAT	ATT	TGA	TGG
		Cilbera	* > * * * * * * * * * * * * * * * * * *	

71	47		. ,
	32 4 C TA	378 TAA	432
	AAT	TTG	GAT
	ACT	TTT	GAC
	GAA	255	AAT
	TTT	GTA	TTG
	TTG ATA TAT TTT GAA ACT AAT	TIT AGC ATA ATG GTA GGC TIT ITG	432 TTA CTA CCA TGC TTG AAT GAC GAT CCC
	ATA	ATA	CCA
	TTG	AGC	CTA
	GAT	TTT	TTA
	297 CTC TAT	351 ATA TGG TTA TAA	405 CTG
	CIC	TTA	CTA
	TAA TCA	TGG	405 ATT GTT CTA CTG
	TAA	ATA	ATT
	GGT	ACC	AAT
	TTG	ATC	၁၅၁
FIG.6 con't.	GAT	TAA	CAT
	cga gtt gat ttg ggt	TTG ACT TAA ATC ACC	AAA TCA CAT CGC AAT
FIG.	CGA	TTG	AAA

270 CTA

FIG.6.

CCG TAT GAT GGC GAT GAC ACC CCA 27 CTG CGC GCT CCATG GAT ATG GGC AGG TGT

6/47 108 TTT GTA GTG ACA TGA CAT TTA GTA ACG GAT ATG ATT TAA CAT CAT AAT TAC 135 CAT 81 TGT CTG TAC GAT TTG ACA CAT \mathbf{TGC} TGI TAC TAA GIT GCC CCA TAT AAC ATT

216 TAT TGA ATA GAA TIT ATG TGT ATC ATA CAT ACG

189 CCC

CGC

TIG

TAA AAA TCA

TIG

TGA TGA TGC GCT ATA 243 CAG AAT GGT GAT TAT TIG TGT ATC TGA TAT GAT